

# Oregon Tualatin Valley Amateur Radio Club



## Field Day 1992: OTVARC Gains Weight!

By Carl Clawson, WS7L

Gained Weight? Well, at least your author did after all that good eating. But not only did we eat well, we again did a superb job of getting three stations up and operating under the usual less-than-ideal conditions. That's what Field Day is all about, and we did it.

Everyone who helped: planning, lending equipment, setup, cooking, operating, eating, take-down, eating seconds, cleaning up, having leftovers for snacks, giving away leftovers, taking home leftovers ... deserves credit for making this a productive and enjoyable Field Day. I can't even begin to name all the names and calls, so THANKS OTVARC!

And it was productive. RF conditions were not the best, and our CW station, which is always a big contributor to our score, required lots of antenna re-work and eventually had to be moved to a new location. Nonetheless, we beat last year's performance by almost three hundred points.

If we receive all our bonus points from ARRL, we should see a score of 2638 and a total of 687 QSOs reported in November's QST. Last year we scored 2362 for 559 QSOs. Contacts break down by band and mode as follows:

Band	CW	SSB
80m	50	118
40m	126	81
20m	82	101
15m	24	84
10m	0	21

At two points per phone QSO and 4 points per CW QSO, this gives 1938 total QSO points. We also earned 100 points each for seven of the bonus categories: publicity, location in a public place, information booth activity, message to section manager, copying WIAW Field Day message, packet radio and satellite. These bonus points are awarded by ARRL, but I'm sure we submitted adequate proof of all these activities to reach our total score of 2638.

On top of all that, I think everyone enjoyed camping at Wilkerson. It is an excellent campsite which I plan to visit again, Field Day or no Field Day. The caretakers were real happy with our group and look forward to hosting us again. They liked the spaghetti, too.

I commend everyone for the efficient and thorough take-down and clean up job you did. The park was left in spotless condition.

Pictures of this years event can be found on pages 4 of this newsletter.

So what about next year? We've had several suggestions for Field Day next year, and your Field Day committee looks forward to further comments and suggestions. Suggestions we've had so far are:

1) Alternate each year between rural and urban locations. The urban sites are better for exposing the public to ham radio, while the rural sites make for fun camping.

2) Have Field Day be a true emergency exercise. The club does not commit in advance to providing any equipment. The club trailer, transceiver, and antennas may or may not show up. Everyone bring what you can and let's make it work.

3) Have Field Day be a try-your-own-gadget day. Do you have an antenna idea you always wanted to try? A home-brew accessory or QRP rig? Solar or other novel power supply? Bring 'em!

4) Split OTVARC into groups and compete internally with each other. For instance, we could rotate teams among the stations and keep individual logs for our own score keeping, then total them together for submission to ARRL.

5) YOUR IDEA GOES HERE. Contact me or any OTVARC board member with your suggestions.

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# From The President's Desk

By Alan Churchill, AA7CV

The big month is finally behind us. Cramming Sea-Pac, Trask, Field Day, regular club meetings and various other important non-ham projects into one month made for a busy month indeed.

At the last regular club meeting we were blessed with four complete "radio repair shops" for Tune Up Night. All in all, about 18 rigs got their innerds looked at and fixed up. My old Hallicrafters rig has never sounded better thanks to the help of Joe Borsch W7PNS, Joe Boyd N7VZS, Neil McKie WA6KLA and Gil Horstman W7DWJ. Thanks very much guys for a job well done.

Field Day was really fun. In our club there were really about three field day setups. The "official" one at Camp Wilkerson was more of a food circus than a contest. It was hard to squeeze in operating time with so much food to eat. Thanks to Joe N7VZS for a fantastic display of culinary delight and to all the operators who made it a success. Next year, Rhombics!

This month we have a very long article in the newsletter on the closure of Heathkit as a "kit" company. This is especially relevant because many of us started out with Heathkit gear. But there is another reason for devoting so much space to this article. Heath's new direction is focused on education and they have a great offering when it comes to training materials. I would like to propose we build a library of training materials. Anyone who want to go for that next license class or even a commercial license would only have to come to the OTVARC library to check out his professionally prepared material. Leaf through the new Heath catalog and let me know what you think.

73,  
Alan Churchill AA7CV

## Events Calendar

- August 5  
OTVARC Board Meeting
- August 8  
Central Oregon Hamfest  
Mt Bachelor Lodge  
Bend, Oregon
- August 12  
OTVARC General Meeting  
Beaverton Elks Club
- September 2  
OTVARC Board Meeting
- September 9  
OTVARC General Meeting  
Beaverton Elks Club
- September 12  
Saratoga County Hamfest  
Ballston Spa, New York
- September 26  
Benson High Radio Club  
Amateur Radio Teen Rally

*Please contact the newsletter staff with dates and times of upcoming events you know about.*

### *This years program for the State Games of Oregon featured the following acknowledgement of OTVARC.*

Perhaps best known for its public service work during time of natural disasters, AMATEUR RADIO has contributed to the public welfare since the turn of the century. Today, the service operates under a general mandate that has remained essentially unchanged since that time. By International Telecommunication Union definition: AMATEUR SERVICE - A radio communication service for the purpose of self-training, intercommunication and technical investigations carried out by amateurs. Accordingly, the OREGON TUALATIN VALLEY AMATEUR RADIO CLUB (OTVARC) and many other amateur radio clubs in the Portland Metro area are providing communications for several public events such as the STATE GAMES OF OREGON. By participating at these public events, training is provided for the dedicated Amateur Operators to maintain their communications skills in the time of need, i.e., natural disasters in the community. The Oregon Amateur Sport Foundation and The Amateur Radio Service have similar goals; such as promoting friendship and understanding in a person's life through their related activities. Both Foundations promote this friendship and understanding on an International level through their unique ability for direct and person-to-person contact among the peoples of the earth. Amateur Sports and Amateur Radio recognizes no political, geographic, ethnic, religious, age, cultural, economic or other barriers and therefore is a unique bridge, unrivaled in human experience, among all the peoples of the world. The AMATEUR RADIO SERVICE consists of a wide range of individuals (students, engineers, doctors, lawyers, administrators, homemakers and many other professionals) sharing a unique hobby. Once again, many dedicated Amateur Radio Operators (HAMS) will be assisting the STATE GAMES OF OREGON with their communications.

# Remember Heathkit?

## Project kits will no longer be available

By Ron Grossman (Reprinted from the *Chicago Tribune* and *The Valley Voice*, Eugene Valley ARC)

St. Joseph, Mich. - A factory here is shortly to become the Wailing Wall of a now-graying generation of nerds.

In reveries of adolescence, our thoughts will return to this resort town on Lake Michigan's shores, about 75 miles northeast of Chicago. For decades that nondescript industrial building was home of Heathkit, which made it a fairy castle to every man and boy who ever dreamed of becoming a new Thomas Edison or Guglielmo Marconi.

William E. Johnson, president of Heath Co., has announced that it will no longer produce its do-it-yourself product line. Once the factory's remaining stock of Heathkits is exhausted, electronic putterers and garage and workshop inventors will have to find alternative outlets for their creative juices.

Actuarial tables, Johnson explained, dictated the decision to abandon the kits in favor of concentrating the company's energies on its highly successful line of consumer electronic products. With each passing year, the Grim Reaper takes away an increasing proportion of the customer base for Heathkits, while the shifting mores of young Americans prevent the company from finding sufficient replacements.

"Do your kids have the patience to sit down and build their own stereo set over the course of several evenings or a weekend?" Johnson asked. "Mine don't. They want to buy one at a store, so they can listen to it the very same day."

But to lots of males born before the age of instant gratification, a stereo or radio was not just a source of entertainment. In kit form, it also provided the even sweeter music of what Johnson calls the "Eureka Complex."

It was an experience Johnson himself never tasted before coming to Heath as a

marketing director about 30 years ago. He didn't think of himself as particularly handy. So he was skeptical when his boss suggested that the best way to get a feel for the company's products was to take a kit home to build.

"My neighbor laughed when he saw me sitting at the kitchen table assembling electronic parts on a circuit board," Johnson said. "But I was so excited when I finished, I pounded on his door at midnight to come hear a transistor radio I'd made with my own two hands."

The afterglow of such a personal triumph is long lasting, Johnson added, noting that he went on to assemble more than 200 more Heathkits. The little curl of smoke that rises from a soldering iron as it joins resistors and condensers can induce an intoxicating habit. So Johnson wasn't surprised by the results of a consumer survey he once commissioned. The consultant firm he hired reported: "You don't have customers. You have evangelical loyalists."

H.L. Parrish, who lives in Newland, N.C., built his first Heathkit, a \$20 shortwave radio, in 1948. When he recently phoned in a \$285 order for Heathkit's super-accurate electronic clock, the factory's order taker broke the news to him that this project would be his last. "Tell you the truth, I've lost count of how many Heathkits I've built," observed Parrish, 65, an insurance premium auditor. "But for many years there, I built every new kit as soon as they put it in their catalog."

Johnson noted that Heathkit's partisans came from all walks of life. Former Sen. Barry Goldwater, a long-time amateur radio buff, has assembled 75 to 100 kits, Johnson reported. "One Christmas, Sen. Goldwater built six of our Trashmasters to give as presents," Johnson said.

Given such loyalty, Johnson dreads having to sit down this June to write his

customers a Dear John letter. In it, he will tell them they will no longer receive the catalogs through which the company periodically announced wonders of modern electronics available by return mail in kit form.

(Continued on page 7)

## Hamfest Schedule

Aug 8 9 AM to 4 PM  
Central OR Radio Amateurs  
High Cascade Hamfair  
Mt Bachelor Lodge, 20 Mi SW of Bend  
Flea Mkt, VE Exams  
\$7 Registration  
Don Harrisngton, N7ION  
69706 W. Meadow Parkway  
Sisters, OR 97759  
Phone 503-549-7951  
Talk in 147.06+

Aug 8, 9AM to 5PM  
Lower Columbia Amateur Radio Assn  
of Longview, WA  
Ham Radio, Computer, & Electronic  
Eq. Swap Meet  
Cowlitz County Fairgrounds  
Longview, WA, Talkin 147.26+  
14,000 Sq Ft of Swap tables,  
commercial displays, tailgate sales.  
Admission \$2 at the door only.

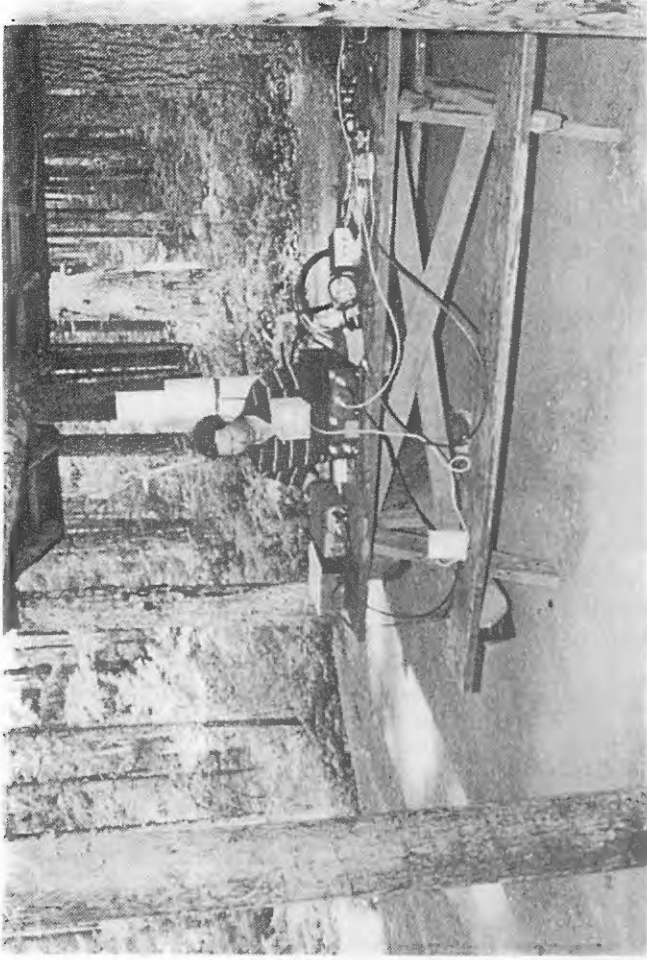
Sept 12 7 AM to 5 PM  
Saratoga County RACES Assn  
County Fairgrounds  
Ballston Spa, NY  
Swap Shop, Dealers, Camping, Junk  
Admission \$4  
Contact N2FEP  
P.O. Box 41  
Rock City Falls, NY 12863  
Talk in 146.4, 147.00, 147.84  
Contact Ray Deeth for beam headings.

Sept 26, 10AM to 2PM  
Benson High School, W7YK Radio Club  
Amateur Radio Teen Rally  
Vancouver PUD Building (Clark Co)  
In Orchards, WA  
Parents, Teachers, Advisors welcome  
Admission \$1 per person  
Contact TGil Brently N7DCS at 206-774-2924

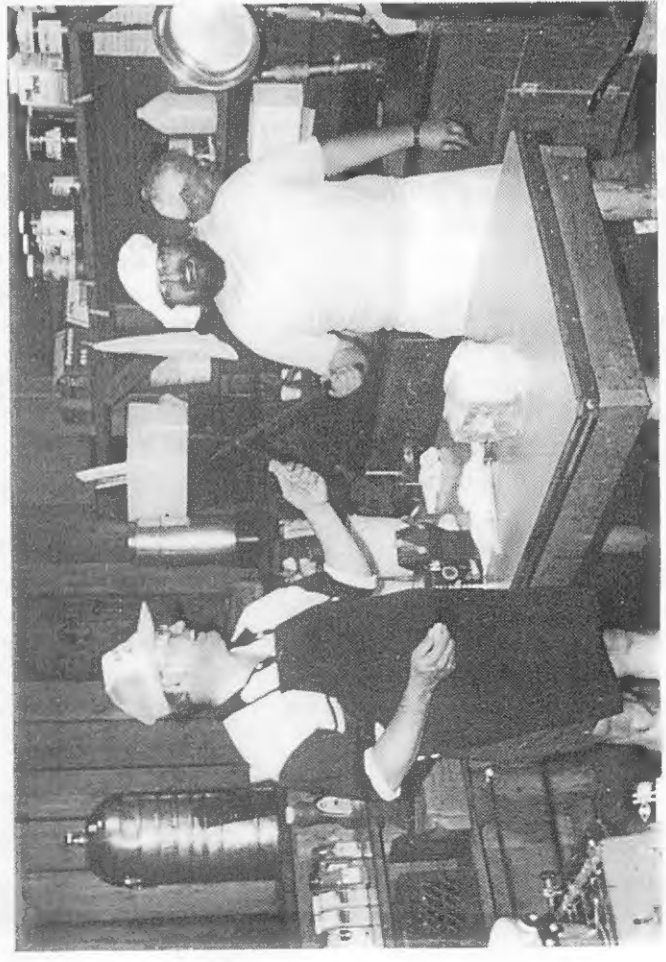




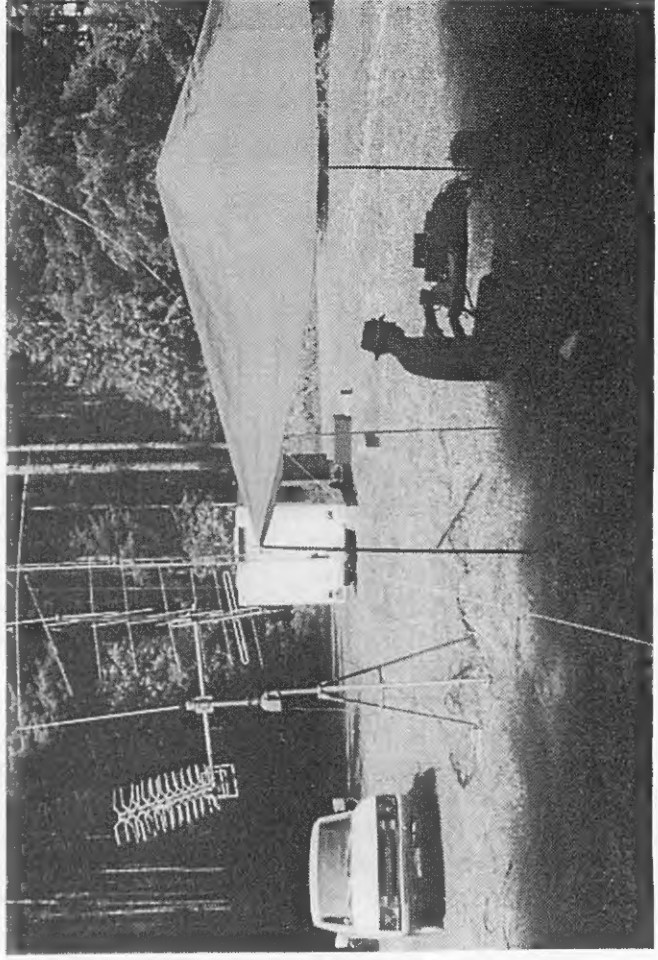
Bob, WF7Q and Whatsisname rolling out the Q's.



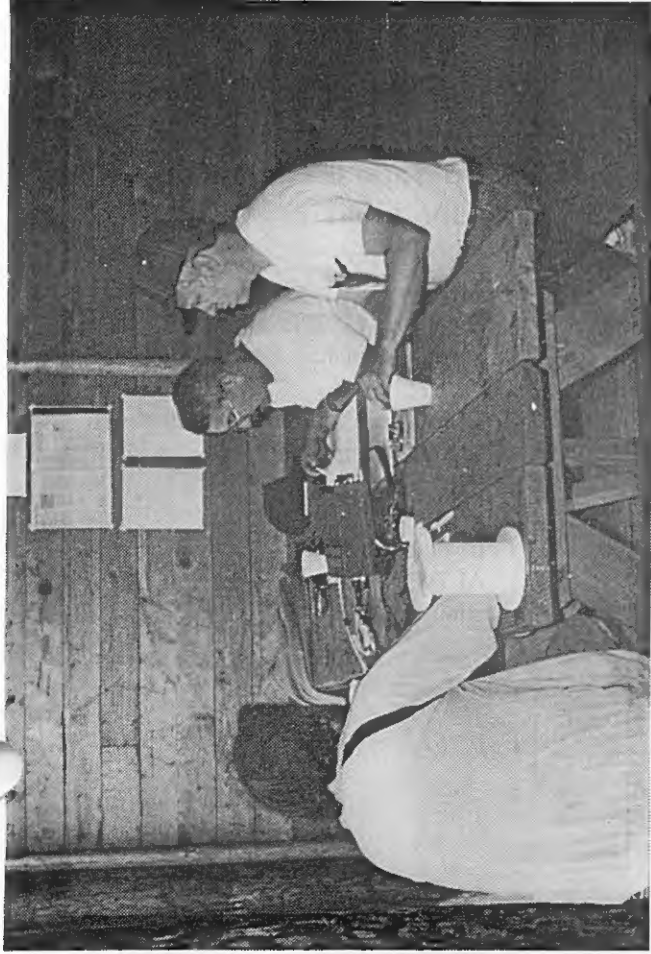
Jim, AE7W, enjoying nature and testing, testing.



Pres, AA7CV dueling with the chef, N7VZS.



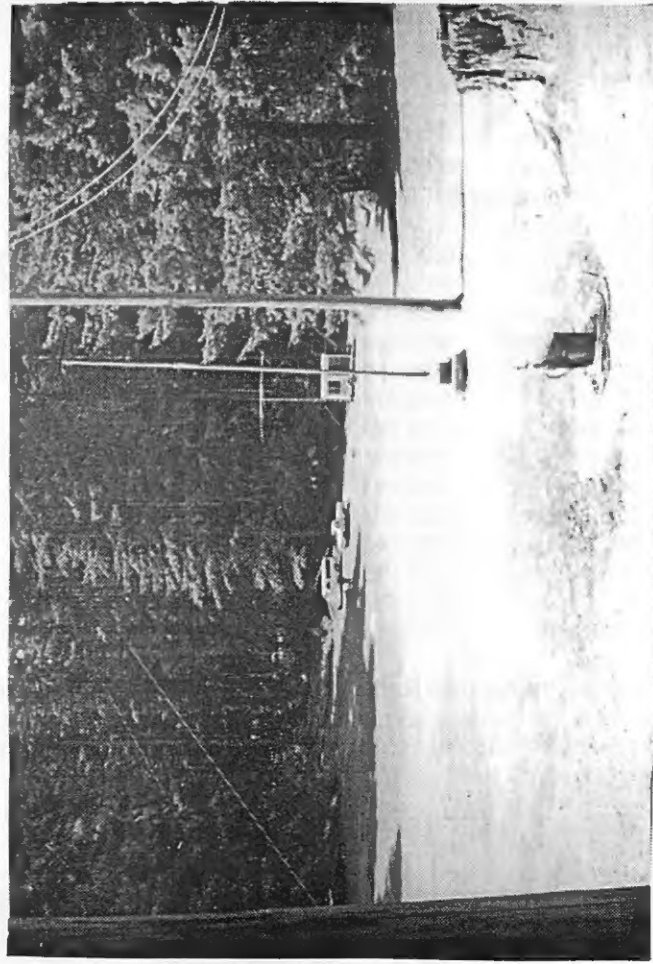
Red Robert, AA7CP, draining a satellite battery.



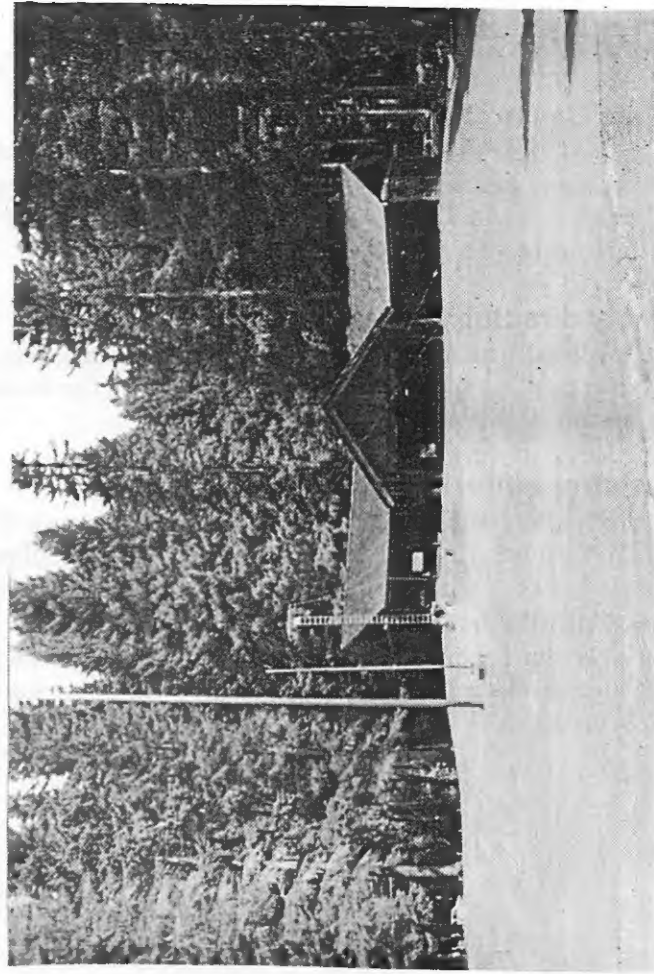
HOW THE HECK DO YOU SPELL MRS. SIPPY??



N7RET---GET THAT MOSQUITO OFF THE DIAL---N7WXX



WHERE THE DEVIL IS EVERYBODY?



I BET THEY ARE ALL IN THE COOKHOUSE. I SMELL FOOD.

# OTVARC Bulletin Board

## Seapac Casino Night preview

On August 14, there will be a BBQ at the Banks Sunset Park. (Where field day was last year). Among other festivities, there will be lots to eat, a beer garden and a CASINO NIGHT. We are looking at the operator of the casino night as a potential for next years Sea-Pac. If you would like to preview the casino night operation (on Friday night), call Ray Deeth at 324-2910. We would like to get lots of input on how good this guy is at operating casino night.

## Publicity director wanted

Wanted: A publicity director for OTVARC. Our club has grown and now is involved in lots of public service events. We could get some great "press" on these activities if someone would like to write up and distribute news articles for us. If you are interested in doing this, call Alan AA7CV.

## Newsletter editor wanted

As some of you know, the position of news letter editor is open. If you like to talk to hams and get stories (that are printable), call Alan (AA7CV), Jeff (KA7AKU) or Al (WB7SIC). We will fill you in on the details.

## Project night needs a leader

Project night is an important function in our club. Each year we pick a fun project and all get together to build it. The leader of Project Night is responsible for finding a room for the 20 or so people who participate and in general "making it happen". Call Joe (N7VZS) for details.

## Local 2 Meter Nets

Net Listing for Two Meters  
by Bill Roth N7RYW

145.27	Monday	8:30 PM	YL & Ladies Net
145.27	Tuesday	6:00 PM	DX Linkup to the East
145.27	Wednesday	8:00 PM	Intertie Checkin
145.27	Thursday	7:00 PM	Evergreen Intertie Technical
145.27	Thursday	9:00 PM	NAPRA Packet Radio Ragchew
145.27	Friday	8:00 PM	Youth Net. Age 20 & Under
145.27	Saturday	9:00 AM	Swap Net
145.27	Saturday	Midnight	Nightowls
145.27	Sunday	10:00 PM	Astronomy Net
145.27	Daily	5:50 AM	Weather Net
145.27	Daily	4:24 PM	Weather Net
146.78	Daily	7:30 PM	Dist 4 ARES (Corvallis)
146.84	Daily	7:00 PM	PARC Checkin
146.90	3rd Wed	7:00 PM	OTVARC On The Air.
147.04	Tuesday	7:00 PM	WA Co. ARES Net
147.24	Tuesday	8:00 PM	Swap n Shop
147.32	Daily	6:05 PM	Traffic handling training net.
147.32	Daily	7:30 PM	District 1 ARES net.

You may join the Amateur Radio Relay Group if you wish. This group supports several repeaters in the Portland area and offers phone patch services to members. To join, write to ARRG, P.O. Box 10031 Portland, OR 97210 for details.

## Upgrade test session scheduled

An upgrade test session will be held on September 12. It is sponsored by the Portland Amateur Radio Club (PARC).

Registration for the test session will begin at noon. Doors will close at 1:00 P.M.

If you are interested, contact Lee Ball, AL7W, for more information. Lee's phone number is 777-1032.



Time was when lots of American households measured the passing by arrival of the Heathkit catalog. Spring, summer, fall and especially as Christmas drew near, the postman would deposit in their mailboxes a 100 page brochure with colorful renderings of families gathered around a big-screen projection TV or a pinball machine that Dad had built. A 1983 catalog cover showed the proud parent of a Heathkit robot diabolically grinning at the electronic slave he had just wired together.

For awkward adolescents of yesteryear, the Heathkit catalog was a kind of electronic-age equivalent of the Book of Psalms: something to be read in moments of despair and discomfort. When word of the Heathkit's demise started seeping out, a number of long-time fans called the factory to express their regrets, notes company spokeswoman, Paula Hancock. Some recalled how they used to take the catalog to high school dances. "They explained that they would bury their noses in the Heathkit catalog," Hancock said, "because they were too shy to speak to girls."

The Heathkit's origins can be traced back to the dreams of Ed Heath, perhaps the ultimate partisan of the do-it-yourself philosophy of life. A barnstorming pilot in the early days of flying, he founded the Heath Airplane Co. in a factory on Chicago's Sedgwick Street in the 1920s. There he designed a small, affordable airplane, which he christened the Parasol.

"Heath sold both fully assembled planes and kits for folks to build in their garages," Johnson said. "Some customers would buy their Parasol a wing at a time, for say \$100 each, until they had all the parts necessary to get their airplane up and flying."

In fact, Heath's kits were assembled by thousands of amateur aviators across the country. But in 1931, Heath died in a test flight crash. Shortly afterward the federal government enacted strict regulations governing home-brewed

aircraft, which bankrupted the company. Its surviving assets were moved to Michigan, where the company was acquired by Howard Anthony in 1936 for a few hundred dollars. Anthony added two-way radios to Heath's airborne offerings, and the company's fortunes improved during World War II when it got government contracts to produce airplane parts for the military.

One day shortly after the war, Anthony got a call from an electronics parts dealer who was helping to liquidate the government's surplus stocks. Sight unseen, Anthony agreed to buy three box-car loads. Then he rushed to his banker to borrow the money he needed to consummate the deal. When the railroad cars arrived at his factory, Anthony found that among the other gadgets he now owned were 1000 oscilloscope tubes.

An oscilloscope displays the mathematical curve corresponding to a given electronic circuit, which makes it an invaluable diagnostic tool for repairmen and technicians. At the time, an oscilloscope tube sold for \$50 or more. But Anthony had bought his for about 50 cents each. That allowed him to package a tube plus all the other components necessary to build an oscilloscope and sell the lot, along with a schematic diagram of how to assemble the device, for \$39.50 each.

With minimal advertising, this first Heathkit was an overnight success upon its introduction in 1947. So Anthony began packaging additional sets of electronic parts that could be assembled into other testing devices and amateur radio equipment. Within three years, the company was selling \$4 million worth of kits a year. In the 1970s, when the catalog included some 400 kits and accessories, sales of Heathkits topped out at about \$60 million a year.

By then, the simple diagram of the early kits had been replaced by elaborate manuals that walked a Heathkit builder through the process, step by step. Those manuals also explained to novices the theory underlying the gadgets they were

assembling and, eventually, Heathkit developed a line of laboratory-quality kits designed to demonstrate basic electronic principles. Widely adopted by American schools, the kits helped upgrade the teaching of science at the secondary and college level.

Heathkit also established a telephone consultation service, so that the stumped constructors could share their frustrations with a technician at the factory. Heathkit's much-trumpeted motto was: "We will not let you fail."

That parlay of quality parts and shared know-how enabled even rank amateurs to construct cutting-edge electronic equipment. In the 1950s, the tinny sound of prewar phonographs gave way to sophisticated amplifiers and speakers labeled "high fidelity." Stereophonic sound was introduced, and TV moved out of the laboratory and into America's living rooms.

Heathkit's customers often were able to build such equipment long before their neighbors could buy factory-produced versions in department stores. When computers were still massive, big-bucks items that only corporations could afford, Heathkit was offering a do-it-yourself version powered by vacuum tubes.

Clifford Burr, who lives in Kenmore, N.Y., built a Heathkit color TV soon after the networks began transmitting in color. "When I finished, I was so excited to see color TV, I lugged the chassis upstairs without even mounting it to the cabinet," the 77-year-old Burr said. "I turned the set on, and my mother-in-law thought I was a genius." When he recently learned of Heathkit's impending demise, Burr went around the house taking inventory of the kits he had built. At 100, he stopped counting, said Burr, who built kits not just for his family's pleasure, but also to equip a TV repair shop that he operated.

When he retired about 15 years ago, Burr gave away his oscilloscope to a young friend with a passion for electronics.

*(Continued on page 8)*

*(Heathkit quits the kit business - Continued from page 7)*

Built from Heathkit's first kit, that oscilloscope was still in perfect working order after 27 years of continual use on Burr's workbench. Burr wasn't the only one to start a business with Heathkits. A few years back, the Heath Co. wanted to cook up a deal with Digital Equipment Corp., a leading computer manufacturer. Wise in the ways of the corporate world, Johnson expected to be put off initially with a my-people-will-get-back-to-your-people runaround. Instead, he soon found himself in the office of Kenneth Olsen, Digital's founder and chief executive officer. "Olsen said he was grateful for what Heathkit had done for him when he was just starting out in the 1960s," Johnson said. "Olsen explained he had had only a limited amount of funds. So he took half his money and built Heathkits to equip a laboratory for his fledgling company."

In the end, Heathkits fell victim to the same rapid progress in electronics that initially made them popular. Early Heathkits were powered by vacuum tubes whose filaments cast an eerie orange light on the builder's hands. Their components had to be connected, piece by piece, so that their chassis seemed stuffed with spaghetti-like masses of electrical wire.

But vacuum tubes have long since given way to transistors, and printed circuit boards largely have done away with hand wiring. A single electronic chip is now the equivalent of the dozens and dozens of resistors and condensers that used to fill a Heathkit builder's workbench to overflowing.

In recent years, many kits required only minimal assembly, thus robbing their constructors of the Eureka Complex that an earlier generation of Heathkit fans experienced. So young people no longer get the kick they once did from building a shortwave radio and hearing voices from across the oceans, notes H.L. Parrish, the North Carolinian who used to assemble kits as fast as Heath's engineers could design them.

Today, an adolescent with a taste for high-tech adventures is more likely to become a computer hacker. "I can't see the kick of staring at a computer screen," Parrish said. "To me, there is no excitement like that of plugging in a radio you've just built, then seeing those vacuum tubes begin to glow just a moment before the first sound comes out of the loudspeaker."

## BORSCH ELECTRONICS

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Tigard, OR. 97223

Joe Borsch W7PNS

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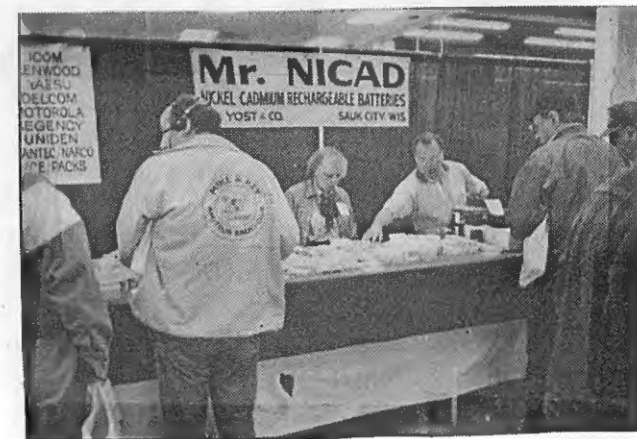
DOUGLAS MULLOY, K7ABX

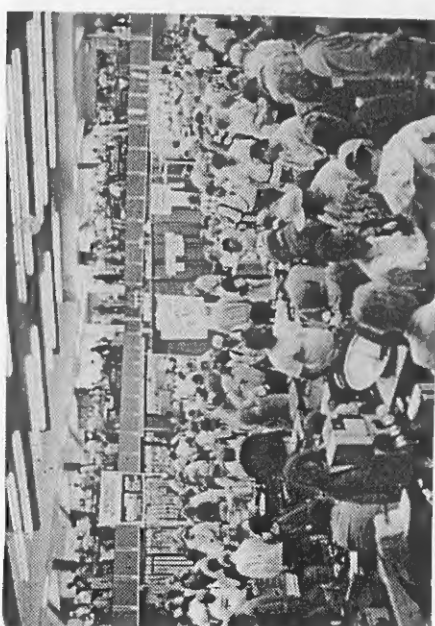
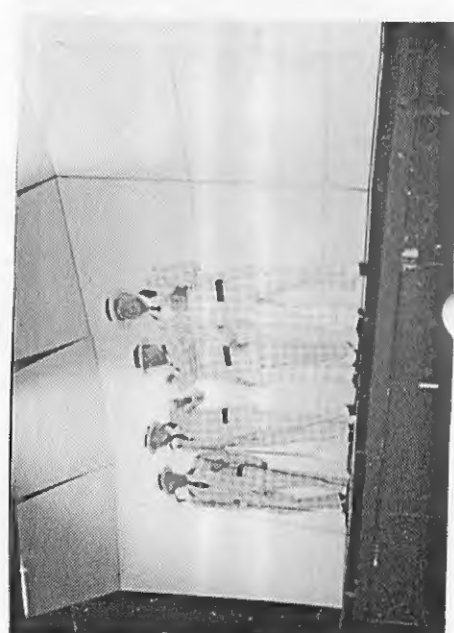
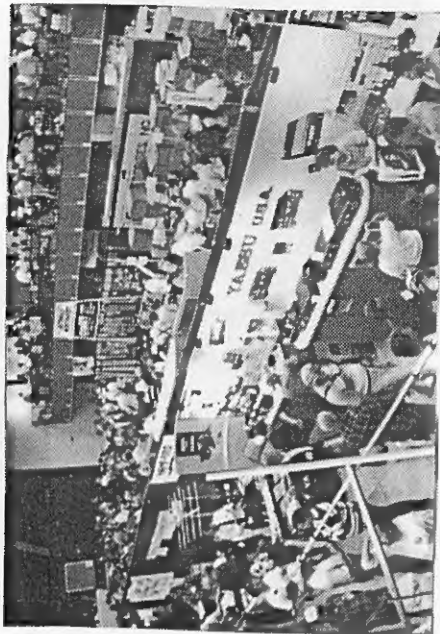
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SEA-PAC 1992 TONS OF WAYS TO SPEND YOUR BUCKS - A REAL GOODIE LAND. AND FUN.







## OTVARC Executive Board

<b>President</b>		
Alan Churchill	AA7CV	639-5660
<b>Vice President</b>		
Gene Buell	KA7KBH	646-7991
<b>Secretary</b>		
Brad Beach	N7NVC	645-5232
<b>Treasurer</b>		
Carl Clawson	WS7L	629-5796
<b>Trustee</b>		
Susan Benson	N7EPE	640-1989
<b>Trustee</b>		
Al Berg	WB7SIC	640-5456
<b>Trustee</b>		
Pat Griffiths	KA7UFG	649-0837
<b>Trustee</b>		
Jim Schaeffer	KB7ADH	245-2518
<b>Trustee</b>		
Alan Roehl	KO7B	292-5243

## Other Club Contacts

<b>Bingo Night</b>		
Ray Deeth	K7VDQ	324-4502
<b>Contesting</b>		
John Koenig	NB7WV	641-3575
<b>DX News</b>		
Ken Gilbert	WR7D	292-3497
<b>Equipment Valuation</b>		
Randy Stimson	KZ7T	297-1175
<b>Emergency Services</b>		
Tim Taylor	N7UCA	292-6830
<b>Field Day</b>		
Carl Clawson	WS7L	629-5796
<b>Health &amp; Welfare</b>		
Al Berg	WB7SIC	640-5456
<b>Newsletter Editor</b>		
<b>Open</b>		
<b>Newsletter Layout</b>		
Jeff Durr	KA7AKU	645-3205
<b>Newsletter Distribution</b>		
Al Berg	WB7SIC	640-5456
<b>Project Night</b>		
<b>Open</b>		
<b>Public Service</b>		
Randy Stimson	KZ7T	297-1175
<b>Repeater</b>		
Wes Allen	K7WWG	649-3295
<b>Satellites</b>		
Red Robert	AA7CP	357-5747
<b>Scholarship</b>		
Pat Griffiths	KA7UFG	649-0837
<b>Sea-Pac</b>		
Randy Stimson	KZ7T	297-1175
Al Berg	WB7SIC	640-5456
Pat Griffiths	KA7UFG	649-0837
Jim Schaeffer	KB7ADH	245-2518
<b>Technical</b>		
Joe Boyd	N7VZS	678-2188
<b>Testing</b>		
Alan Roehl	KO7B	292-5243
<b>Trailer</b>		
Dee Lynch	KA7NPN	646-4580
<b>Training</b>		
Tom Durell	KG7RD	
Bill Vesser	N7RYQ	644-3739
<b>VHF/UHF</b>		
Bill Roth	N7RYW	297-7605

## OTVARC Club Information

**Purpose:** The Oregon Tualatin Valley Amateur Radio Club, a non profit corporation, wants to be instrumental in helping the prospective as well as established Amateur to become a proficient communicator in the Amateur Radio Service.

Additionally, the intent is to promote the advancement of Amateur Radio Service through the following five objectives:

- 1.) Education & training of new and licensed amateurs.
- 2.) Public Service during public events & community activities.
- 3.) Emergency Communications during emergencies & disasters.
- 4.) Hobby enhancement through meetings, nets and contests.
- 5.) Social contact with other amateurs & interested persons.

**Special Service Club:** OTVARC is an ARRL Special Service Club. This means (among other things) that the club benefits from you joining the ARRL through our club. To join or renew the ARRL, contact the treasurer at any regular meeting.

**Newsletter:** The OTVARC NEWS is published monthly by the Oregon Tualatin Valley Amateur Radio Club, Inc. The opinions, views and recommendations of its contributors are not necessarily those of the Club, it's officers, advertisers or the Editorial Staff. All correspondence relating to the club can be sent to: OTVARC, P.O. Box 5132, Aloha, Oregon, 97006-0132.

**Advertising:** Classified ads are free to all paid up members. Display ads are available to approved commercial interests. To place an ad, mail your camera ready copy to the address above and indicate the size and length of time desired. All ads must be paid for in advance. Rates for 1992:

Full Page	8" X 10"	\$40/Mo, \$110/Qtr or \$400/Yr.
Half Page	8" X 5"	\$25/Mo, \$ 70/Qtr or \$250/Yr.
Qtr Page	4" X 5"	\$15/Mo, \$ 40/Qtr or \$150/Yr.
Bus Card	2" X 3"	\$ 7/Mo, \$ 20/Qtr or \$ 70/Yr.

**Meeting:** We have three meetings per month - a board meeting (first Wednesday) at which all club business is transacted, a club meeting (second Wednesday) which is mostly social and educational and OTVARC On The Air (third Wednesday) which is a recap of the previous meeting. It is held from 7 - 7:30 PM on 146.90 Mhz.

**Membership:** OTVARC is open to anyone with an interest in radio or electronics. You do not need to be a licensed radio amateur to join our group.

1. Full, licensed hams, \$10/yr. All privileges.
2. Associate, non hams, \$10/yr. No vote, no elective offices.
3. Family, \$5/yr. Spouses, dependents residing with full member. Same privileges as full members.
4. Life. See treasurer for details.

All memberships expire on the last day of the calendar year. If you join in the 2nd quarter, deduct 25% from the dues above. If you join in the 3rd quarter, deduct 50% from the dues above. If you join in the 4th quarter, deduct 75% from the dues above. In addition to the dues, there is a one time only initiation fee of \$2.00.

**How to Join:** Simply mail the appropriate dues and your member profile form to the Treasurer, Carl Clawson WS7L at the PO Box above. He will send you put you on the membership list.



**Oregon Tualatin Valley Amateur Radio Club**  
**Post Office Box 5132**  
**Aloha, Oregon 97006-0132**

*Address Correction Requested*

~~111135010, OR 97122~~

**FIRST CLASS MAIL**